

**OLIGOMERIC AND POLYMERIC OLED MATERIALS PRODUCED VIA  
ARYLATION OF QUINONES**

**ABSTRACT OF THE DISCLOSURE**

5                    OLED materials are provided that have the general formula:



wherein the subscript n is an integer of from 5 to 15; the superscript i is an integer of from 1 to n and denotes the position downstream from  $R^1$ ; each  $Ar^i$  is a substituted or unsubstituted aryl group;  $R^1$  and  $R^2$  are each substituents that increase the solubility of the para-phenylene compound in nonpolar organic solvents relative to the solubility of the corresponding  
10                    compound wherein  $R^1$  and  $R^2$  are hydrogen; with the proviso that the  $Ar^i$  groups are linked together in a 1,4-paraphenylene manner.

15                    SF 1210897 v1